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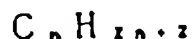
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TITLE : PRODUCTION OF BETA TYPE
SILICON CARBIDE POWDER

ABSTRACT : PURPOSE: To obtain high-purity β type SiC fine powder inexpensively and efficiently, by thermally decomposing an organosilicon compound with a specific gas and heat-treating the obtained fine powder.

CONSTITUTION: An organosilicon compound shown by formula I (R is CH_3 or C_2H_5 ; X is Cl ; n is 1~2) and a carrier gas containing ≥ 95 wt.% hydrocarbon gas shown by formula II such as methane are introduced into a reaction system and chemically reacted in a gas phase at $800\sim 1,200^\circ C$ to give fine powder. Then the powder is heat-treated at $1,200\sim 2,200^\circ C$ to produce β type SiC fine powder having ≥ 95 wt.% purity and $1\sim 6 m^2/g$ specific surface area.

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